CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.18/KRIDL/CEMENT/2014-15

Date: 14.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Construction of SSM drain from 1" Main road to Solid Waste Management center in parallel road to SWD in Ward No.18, BBMP, Bangalore.
REFERENCE	:	AEE/H/(WO)/102/2014-15 Dated: 10.07.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	25.50 %	-

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in laboratory.

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

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Job No.: CTCE/BBMP/W.No.18/KRIDL/SAND/2014-15 : 14.07.2

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Construction of SSM drain from 1st Main road to Solid Waste Management center in par road to SWD in Ward No.18, BBMP, Bangalore.

Reference : AEE/H/(WO)/102/2014-15 Dated: 10.07.2014

Date of Testing : 14.07.2014

Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limi For Zone-
10	0	0	0	100	100
4.75	99	4.95	4.95	95.1	90-100
2.36	206	10.30	15.25	84.8	75-100
1.18	505	25.25	40.50	59.5	55-90
600 Micron	420	21.00	61.50	38.5	35-59
300 Micron	508	25.40	86.90	13.1	8-30
150 Micron	201	10.05	96.95	3.1	0-10

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.18/KRIDL/AGG/2014-15 : 14.07.201

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Construction of SSM drain from 1st Main road to Solid Waste Management center in parall road to SWD in Ward No.18, BBMP, Bangalore.

Reference : AEE/H/(WO)/102/2014-15 Dated: 10.07.2014

Date of Testing : 14.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25400**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1010	3.98	3.98	96.02	95-100
20	16420	64.65	68.62	31.38	30-70
10	5013	19.74	88.36	11.64	10-35
4.75	2514	9.90	98.26	1.74	0-5

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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Job No.: CTCE/BBMP/W.No.18/KRIDL/CUBE/2014-15 28.07.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the work : Construction of SSM drain from 1st Main road to Solid Waste Managemen center in parallel road to SWD in Ward No.18, BBMP, Bangalore.

Reference : AEE/H/(WO)/102/2014-15 Dated: 10.07.2014

Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strengt (N/mm^2)
1	21.07.2014	28.07.2014	8.463	385.1	17.12
2	21.07.2014	28.07.2014	8.388	368.7	16.39
3	21.07.2014	28.07.2014	8.277	354.6	15.76

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